

In the claims:

## 1-13. (Cancelled)

14. **(Currently Amended)** An isolated nucleic acid which hybridizes under stringent conditions including a wash step in 0.2 x SSC at 65°C to ~~the~~ a nucleic acid consisting of the nucleotide sequence set forth in SEQ ID NO: 15, wherein the isolated nucleic acid encodes a protein having sulfotransferase activity.

## 15-20. (Cancelled)

21. **(Currently Amended)** An isolated nucleic acid encoding a polypeptide comprising an amino acid sequence having at least 90% 95% identity with SEQ ID NO: 16, wherein the polypeptide has a sulfotransferase activity.

22. **(Previously Presented)** The isolated nucleic acid of claim 21, encoding a polypeptide comprising an amino acid sequence having at least 99% identity with SEQ ID NO: 16.

23. **(Currently Amended)** The isolated nucleic acid of claim 21, encoding a polypeptide comprising ~~an the~~ amino acid sequence ~~having 100% identity with~~ set forth in SEQ ID NO: 16.

24. **(Currently Amended)** The isolated nucleic acid of claim 21, encoding a polypeptide consisting of ~~an the~~ amino acid sequence ~~having 100% identity with~~ set forth in SEQ ID NO: 16.

25. **(Currently Amended)** An isolated nucleic acid encoding a polypeptide having a sulfotransferase activity wherein the nucleic acid comprises a nucleotide sequence having at least 90% 95% identity with SEQ ID NO: 15.

26. **(Previously Presented)** The isolated nucleic acid of claim 25, wherein the nucleic acid comprises a nucleotide sequence having at least 99% identity with SEQ ID NO: 15.

27. **(Currently Amended)** The isolated nucleic acid of claim 25, wherein the nucleic acid comprises ~~a the~~ nucleotide sequence ~~having 100% identity with~~ set forth in SEQ ID NO: 15.

28. **(Previously Presented)** The isolated nucleic acid of claim 25 consisting of the nucleotide sequence set forth in SEQ ID NO: 15.

29. **(Previously Presented)** A vector comprising the nucleic acid of claim 21.

30. **(Previously Presented)** A vector comprising the nucleic acid of claim 25.

31. **(Previously Presented)** A vector comprising the nucleic acid of claim 26.
32. **(Currently Amended)** A vector comprising the nucleic acid of claim ~~27~~ 22.
33. **(Previously Presented)** An expression vector comprising the nucleic acid of claim 21.
34. **(Previously Presented)** An expression vector comprising the nucleic acid of claim 25.
35. **(Previously Presented)** An expression vector comprising the nucleic acid of claim 26.
36. **(Currently Amended)** An expression vector comprising the nucleic acid of claim ~~27~~ 22.
37. **(Previously Presented)** A cell comprising the vector of claim 33.
38. **(Previously Presented)** The cell of claim 37, which is a prokaryotic cell.
39. **(Previously Presented)** The cell of claim 37, which is an eukaryotic cell.
40. **(Previously Presented)** A cell comprising the vector of claim 34.
41. **(Previously Presented)** The cell of claim 40, which is a prokaryotic cell.
42. **(Previously Presented)** The cell of claim 40, which is an eukaryotic cell.
43. **(Previously Presented)** A cell comprising the vector of claim 35.
44. **(Previously Presented)** The cell of claim 43, which is a prokaryotic cell.
45. **(Previously Presented)** The cell of claim 43, which is an eukaryotic cell.
46. **(Previously Presented)** A cell comprising the vector of claim 36.
47. **(Previously Presented)** The cell of claim 46, which is a prokaryotic cell.
48. **(Previously Presented)** The cell of claim 46, which is an eukaryotic cell.
49. **(Previously Presented)** A plant comprising a heterologous nucleic acid of claim 21.
50. **(Previously Presented)** The plant of claim 49, wherein the plant is a monocotyledon.
51. **(Previously Presented)** The plant of claim 49, wherein the plant is a dicotyledon.
52. **(Previously Presented)** A plant comprising a heterologous nucleic acid of claim 25.
53. **(Previously Presented)** The plant of claim 52, wherein the plant is a monocotyledon.
54. **(Previously Presented)** The plant of claim 52, wherein the plant is a dicotyledon.

- 55. **(Previously Presented)** A plant comprising a heterologous nucleic acid of claim 26.
- 56. **(Previously Presented)** The plant of claim 55, wherein the plant is a monocotyledon.
- 57. **(Previously Presented)** The plant of claim 55, wherein the plant is a dicotyledon.
- 58. **(Currently Amended)** A plant comprising a heterologous nucleic acid of claim ~~27~~ 22.
- 59. **(Previously Presented)** The plant of claim 58, wherein the plant is a monocotyledon.
- 60. **(Previously Presented)** The plant of claim 58, wherein the plant is a dicotyledon.